

We Claim:

1. A light beam gradient detector comprising:
 - a. a photodetector array having a plurality of photodetector elements each operable to provide a signal that corresponds to the light received by photodetector element;
 - b. a gradient circuit in communication with the photodetector array and operable to determine a light gradient measured between two of the plurality of photodetector elements; and
 - c. a display device in communication with the gradient circuit and operable to display the value of the light gradient measured between two of the plurality of photodetector elements.
2. The light beam gradient detector of claim 1, wherein the photodetector array further comprises a plurality of light sources, each of the plurality of light sources positioned adjacent to one of the plurality of photodetector elements, at the plurality of light sources in communication with the gradient circuit.
3. The light beam gradient detector of claim 1 wherein the plurality of photodetector elements comprise at least three photodetectors.
4. The light beam gradient detector of claim 1 wherein the gradient circuit comprises a microchip.
5. The light beam gradient detector of claim 1 further comprising a mounting device, wherein the gradient circuit is attached to the mounting device.
6. The light beam gradient detector of claim 5 wherein the mounting device is a screen.
7. The light beam gradient detector of claim 6 wherein the screen is attached to a wall.

8. The light beam gradient detector of claim 6 wherein the screen includes a plurality of markings.
9. A light beam gradient detector comprising:
 - a. a mounting device;
 - b. a photodetector array positioned upon the mounting device, the photodetector array having a plurality of adjacent photodetector elements;
 - c. a gradient circuit in communication with the plurality of photodetector elements, the gradient circuit operable to determine a light gradient between two of the plurality of adjacent photodetector elements, and
 - d. a plurality of light sources also positioned upon the mounting device, each of the plurality of light sources adjacent to one of the plurality of photodetector elements, wherein one of the plurality of light sources is illuminated to indicate the location of the light gradient determined by the gradient circuit.
10. The light beam gradient detector as in claim 9 further comprising a display device positioned upon the mounting device and operable to display a value for the light gradient determined by the gradient circuit.
11. The light beam gradient detector of claim 9 wherein the gradient circuit is operable to collect intensity values from each of the plurality of photodetector elements and determine the light gradient between each of the plurality of photodetector elements.
12. The light beam gradient detector of claim 9 wherein the gradient circuit is operable to determine the maximum light gradient for all light gradients determined between adjacent photodetector elements.

13. The light beam gradient detector of claim 9 further comprising a display device in communication with the gradient detector and operable to display a value for a maximum light gradient determined by the gradient circuit.
14. The light beam gradient detector of claim 9 wherein the gradient circuit comprises a microchip.
15. The light beam gradient detector of claim 9 wherein the mounting device is a screen.
16. The light beam gradient detector of claim 15 wherein the screen includes a plurality of markings representative of a roadway.
17. The light beam gradient detector of claim 16 wherein the screen includes at least one marking representative of a horizon.
18. A light beam gradient detector comprising:
 - a. a screen for receiving at least one beam of light;
 - b. means for determining a maximum gradient value of light projected onto the screen; and
 - c. means for displaying the position of the maximum gradient on the screen.
19. The light beam gradient detector of claim 18 further comprising means for displaying the maximum gradient value.
20. The light beam gradient detector of claim 19 wherein the means for displaying the maximum gradient value is located on the screen.